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FAX COVER SHEET

Date November 18, 2008
Total Number of Pages **15** (Including this page)

To	Company	City	Fax Number	Phone Number
Mr. Omega Lewis	U.S. Patent and Trademark Office Certificate of Corrections - c/o Office of Data Management	Alexandria, VA	703.308.6672	703.308.9390 x 104

From Judith Sherman, Paralegal for Stephanie Seidman, Reg. No. 33,779
Phone 858.509.7442
Direct Fax 858.509.7460

Your Ref **U.S. Patent No. 7,157,418** - Issued January 2, 2007 (09/360,242)
Our Attorney Docket No. 119361-00003 / 601B

Message Re-submission of *Request for Correction to Issued Certificate of Correction*
originally filed October 10, 2008 - COC issued June 24, 2008

Dear Mr. Lewis:

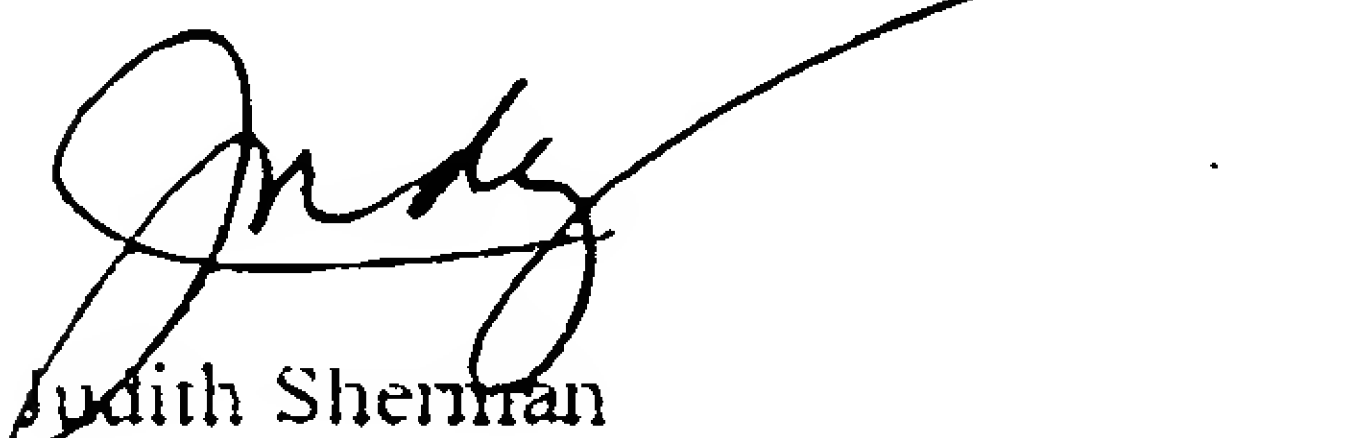
Thank you for your reply telephone call this morning advising that your office currently does not have any record of receipt for the *Request for Correction to Issued Certificate of Correction* originally filed, via Express Mail EM247738386US, on October 10, 2008, for the subject **U.S. Patent 7,157,418**.

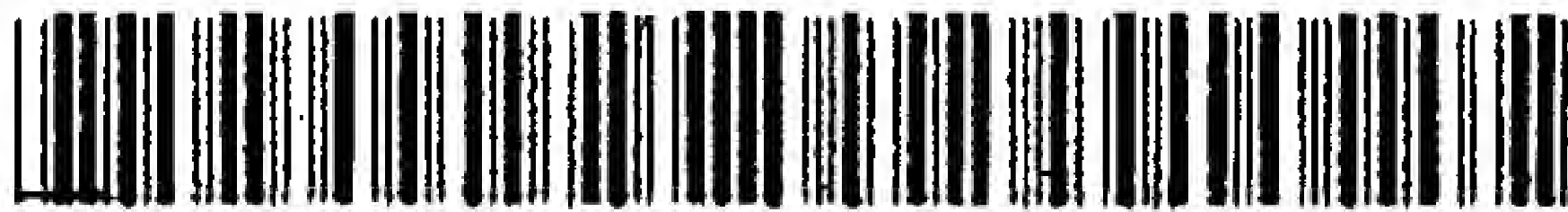
As requested, attached please find the date-stamped return receipt postcard, stamped Oct 10 2008 by OIPE, along with the complete Request package including *Transmittal Letter*, *Request for Correction to Issued Certificate of Correction*, and the *Certificate of Correction*, pages 1 - 6, with corrections on pages 4, 5, and 6.

Please acknowledge receipt of this re-submission via return fax, and forward the Request to your Team Leader, Ms. Michelle Williams for assignment to an examiner for review.

Mr. Lewis, as always, your assistance is highly valued, and it is a pleasure to work with you in resolving the issues or problems that arise with the patents in my case management portfolio.

Kind regards,


Judith Sherman



EM 247738386 US



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0119361-00003/6018/SLS/NQL/prp

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Attorney's Docket No. 0119361-00003/6018	Express Mail Label No. EM 247738386 US	Mailing Date October 10, 2008	For PTO Use Only Do Not Mark in This Area
Patent No. 7,157,418	Issue Date January 2, 2007	Attorney/Secretary Init. SLS/NQL/prp	
Title of the Invention METHODS AND COMPOSITIONS FOR TREATING SECONDARY TISSUE DAMAGE AND OTHER INFLAMMATORY CONDITIONS AND DISORDERS			
Applicant McDonald et al			
Enclosures <ul style="list-style-type: none"> Transmittal Letter (1 page, in duplicate). Request for Correction to Issued Certificate of Correction (5 pages); Hand Annotated Copy of Certificate of Correction (6 pages); and This Return Postcard 			

Attorney's Docket No. 119361-00003 / 601B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : McDonald et al. Art Unit : 1647
Patent No. : 7,157,418 Examiner : Landsman, Robert S.
Issue Date : January 2, 2007 Conf. No. : 3887
Serial No. : 09/360,242 Cust. No. : 77202
Filed : July 22, 1999
Title : METHODS AND COMPOSITIONS FOR TREATING SECONDARY
TISSUE DAMAGE AND OTHER INFLAMMATORY CONDITIONS AND
DISORDERS

Attn.: Certificate of Corrections Branch

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Dear Sir:

Transmitted herewith are a Request for a Corrected Certificate of Correction (5 pages), Hand-Annotated Sheets (6 pages) and a return postcard for filing in connection with the above-identified application. All errors sought to be corrected were made in printing by the Patent and Trademark Office, and no fee is believed to be due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 02-1818, as stated below:

- ☒ The Commissioner is hereby authorized to charge any fees that may be due in connection with this paper or with this application during its entire pendency to Deposit Account No. 02-1818. A duplicate of this sheet is enclosed.

Respectfully submitted,

Stephanie Seidman
Reg. No. 33,719

Attorney Docket No. 119361-00003 / 601B
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Bell, Boyd & Lloyd LLP
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CERTIFICATE OF MAILING BY "EXPRESS MAIL"

"Express Mail" Mailing Label Number EM 247738386 US
Date of Deposit: October 10, 2008

I hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR §1.10 on the date indicated above and is addressed to: Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA, 22313-1450

Kethya Teuk

Attorney's Docket No.: 119361-00003 / 601B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : McDonald et al. Art Unit : 1647
Patent No. : 7,157,418 Examiner : Landsman, Robert S
Issue Date : January 2, 2007 Conf. No. : 3887
Serial No. : 09/360,242 Cust. No. : 77202
Filed : July 22, 1999
Title : METHODS AND COMPOSITIONS FOR TREATING SECONDARY
 TISSUE DAMAGE AND OTHER INFLAMMATORY CONDITIONS AND
 DISORDERS

Attn.: Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Dear Sir:

Transmitted herewith are a Request for a Corrected Certificate of Correction (5 pages), Hand-Annotated Sheets (6 pages) and a return postcard for filing in connection with the above-identified application. All errors sought to be corrected were made in printing by the Patent and Trademark Office, and no fee is believed to be due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 02-1818, as stated below:

☒ The Commissioner is hereby authorized to charge any fees that may be due in connection with this paper or with this application during its entire pendency to Deposit Account No. 02-1818. A duplicate of this sheet is enclosed.

Respectfully submitted,

Stephanie Seidman
Reg. No. 13,779

Attorney Docket No. 119361-00003 / 601B
Address all correspondence to: 77202
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CERTIFICATE OF MAILING BY "EXPRESS MAIL"
"Express Mail" Mailing Label Number EM 247738386 US
Date of Deposit: October 10, 2008
I hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR §1.10 on the date indicated above and is addressed to: Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA, 22313-1450

Kathya Teuk 

Attorney's Docket No. 119361-00003 / 601B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : McDonald et al. Art Unit : 1647
Patent No. : 7,157,418 Examiner : Landsman, Robert S.
Issue Date : January 2, 2007 Conf. No. : 3887
Serial No. : 09/360,242 Cust. No. : 77202
Filed : July 22, 1999
Title : METHODS AND COMPOSITIONS FOR TREATING SECONDARY
TISSUE DAMAGE AND OTHER INFLAMMATORY CONDITIONS AND
DISORDERS

Attn.: Certificate of Corrections Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTION TO ISSUED CERTIFICATE OF CORRECTION

Dear Sir:

Issuance of a corrected Certificate of Correction for the above-referenced patent respectfully is requested. New errors were introduced by the PTO in the Certificate of Correction issued on 24 June 2008. A hand-corrected version of the issued Certificate of Correction for the above captioned patent is attached. Correction of the following errors introduced by the PTO respectfully is requested:

In claim 25, on page 4, in line 3 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation "GRO- α , GRO- α , GRP- α " by inserting the character ' α ' instead of the correct ' α ' character, by inserting the character ' α ' instead of the correct ' β ' character, and by inserting the character ' α ' instead of the correct ' γ ' character. Please correct these typographical errors such that the recitation now reads as -GRO- α , GRO- β , GRP- γ - as correctly recited in then-pending claim 68 (now issued claim 25) of the claim listing of the Amendment filed on 05 September 2000.

In claim 25, on page 4, in line 4 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation "SDF-1 α , SDF-1 α " by inserting the character ' α ' instead of the correct ' α ' character and by inserting the character ' α ' instead of the correct ' β ' character. Please correct these typographical errors such that the recitation now reads as -

CERTIFICATE OF MAILING BY "EXPRESS MAIL"
"Express Mail" Mailing Label Number EM 247738386 US
Date of Deposit: October 10, 2008
I hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR §1.10 on the date indicated above and is addressed to: Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA, 22313-1450.

Kethya Teuk

Applicant : McDonald et al.
Patent No. : 7,157,418
Issue Date : January 2, 2007
Serial No : 09/360,242
Filed : July 22, 1999

Attorney's Docket No : 119361-00003 / 601B
Request for Corrected Certificate of Correction

SDF-1 α , SDF-1 β — as correctly recited in then-pending claim 68 (now issued claim 25) of the claim listing of the Amendment filed on 05 September 2000.

In claim 25, on page 4, in line 5 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation "MIP-1 α , MIP-1 α , MIP-1 α , MIP-2, MIP-2 α , MIP-3 α " by inserting the character ' α ' instead of the correct ' α ' character, by inserting the character ' α ' instead of the correct ' β ' character, and by inserting the character ' α ' instead of the correct ' γ ' character. Please correct these typographical errors such that the recitation now reads as —MIP-1 α , MIP-1 β , MIP-1 γ , MIP-2, MIP-2 α , MIP-3 α — as correctly recited in then-pending claim 68 (now issued claim 25) of the claim listing of the Amendment filed on 05 September 2000.

In claim 25, on page 4, in line 6 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation "MIP-3 α , MIP-4, MIP-5, MDC, HCC-1, LD78 α " by inserting the character ' α ' instead of the correct ' β ' character. Please correct these typographical errors such that the recitation now reads as —MIP-3 β , MIP-4, MIP-5, MDC, HCC-1, LD78 β — as correctly recited in then-pending claim 68 (now issued claim 25) of the claim listing of the Amendment filed on 05 September 2000.

In claim 40, on page 5, in line 18 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation "GRO- α , GRO- α , GRP- α " by inserting the character ' α ' instead of the correct ' α ' character, by inserting the character ' α ' instead of the correct ' β ' character, and by inserting the character ' α ' instead of the correct ' γ ' character. Please correct these typographical errors such that the recitation now reads as —GRO- α , GRO- β , GRP- γ — as correctly recited in then-pending claim 81 (now issued claim 40) of the claim listing of the Amendment filed on 05 September 2000.

In claim 40, on page 5, in line 19 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation "SDF-1 α , SDF-1 α " by inserting the character ' α ' instead of the correct ' α ' character and by inserting the character ' α ' instead of the correct ' β ' character. Please correct these typographical errors such that the recitation now reads as —SDF-1 α , SDF-1 β — as correctly recited in then-pending claim 81 (now issued claim 40) of the claim listing of the Amendment filed on 05 September 2000.

In claim 40, on page 5, in line 20 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation "MIP-1 α , MIP-1 α , MIP-1 α , MIP-2, MIP-2 α " by inserting the character ' α ' instead of the correct ' α ' character, by inserting the character ' α '

Applicant McDonald et al.
Patent No. 7,157,418
Issue Date January 2, 2007
Serial No. 09/360,242
Filed July 22, 1999

Attorney's Docket No.: 119361-00003 / 601B
Request for Corrected Certificate of Correction

instead of the correct ' β ' character, and by inserting the character ' α ' instead of the correct ' γ ' character. Please correct these typographical errors such that the recitation now reads as $\text{--MIP-1}\alpha$, $\text{MIP-1}\beta$, $\text{MIP-1}\gamma$, MIP-2 , $\text{MIP-2}\alpha$ -- as correctly recited in then-pending claim 81 (now issued claim 40) of the claim listing of the Amendment filed on 05 September 2000.

In claim 40, on page 5, in line 21 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation " $\text{MIP-3}\alpha$, $\text{MIP-3}\beta$, MIP-4 , MIP-5 , MDC , HCC-1 , $\text{LD78}\alpha$ " by inserting the character ' α ' instead of the correct ' α ' character and by inserting the character ' α ' instead of the correct ' β ' character. Please correct these typographical errors such that the recitation now reads as $\text{--MIP-3}\alpha$, $\text{MIP-3}\beta$, MIP-4 , MIP-5 , MDC , HCC-1 , $\text{LD78}\beta$ -- as correctly recited in then-pending claim 81 (now issued claim 40) of the claim listing of the Amendment filed on 05 September 2000.

In claim 48, on page 6, in line 3 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation " $\text{GRO-}\alpha$, $\text{GRO-}\beta$, $\text{GRP-}\gamma$ " by inserting the character ' α ' instead of the correct ' α ' character, by inserting the character ' α ' instead of the correct ' β ' character, and by inserting the character ' α ' instead of the correct ' γ ' character. Please correct these typographical errors such that the recitation now reads as $\text{--GRO-}\alpha$, $\text{GRO-}\beta$, $\text{GRP-}\gamma$ -- as correctly recited in then-pending claim 89 (now issued claim 48) of the claim listing of the Amendment filed on 09 October 2002.

In claim 48, on page 6, in line 4 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation " $\text{SDF-1}\alpha$, $\text{SDF-1}\beta$ " by inserting the character ' α ' instead of the correct ' α ' character and by inserting the character ' α ' instead of the correct ' β ' character. Please correct these typographical errors such that the recitation now reads as $\text{--SDF-1}\alpha$, $\text{SDF-1}\beta$ -- as correctly recited in then-pending claim 89 (now issued claim 48) of the claim listing of the Amendment filed on 09 October 2002.

In claim 48, on page 6, in line 5 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation " $\text{MIP-1}\alpha$, $\text{MIP-1}\beta$, $\text{MIP-1}\gamma$ " by inserting the character ' α ' instead of the correct ' α ' character, by inserting the character ' α ' instead of the correct ' β ' character, and by inserting the character ' α ' instead of the correct ' γ ' character. Please correct these typographical errors such that the recitation now reads as $\text{--MIP-1}\alpha$, $\text{MIP-1}\beta$, $\text{MIP-1}\gamma$ -- as correctly recited in then-pending claim 89 (now issued claim 48) of the claim listing of the Amendment filed on 09 October 2002.

Applicant : McDonald et al.
Patent No : 7,157,418
Issue Date : January 2, 2007
Serial No. : 09/360,242
Filed : July 22, 1999

Attorney's Docket No.: 119361-00003 / 601B
Request for Corrected Certificate of Correction

In claim 48, on page 6, in line 6 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation "MIP-2 α , MIP-3 α , MIP-3 α , MIP-4, MIP-5, MDC, HCC-1, LD78 α " by inserting the character ' α ' instead of the correct ' α ' character and by inserting the character ' α ' instead of the correct ' β ' character. Please correct these typographical errors such that the recitation now reads as -MIP-2 α , MIP-3 α , MIP-3 β , MIP-4, MIP-5, MDC, HCC-1, LD78 β - as correctly recited in then-pending claim 89 (now issued claim 48) of the claim listing of the Amendment filed on 09 October 2002.

In claim 50, on page 6, in line 11 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation "GRO- α , GRO- α , GRP- α " by inserting the character ' α ' instead of the correct ' α ' character, by inserting the character ' α ' instead of the correct ' β ' character, and by inserting the character ' α ' instead of the correct ' γ ' character. Please correct these typographical errors such that the recitation now reads as -GRO- α , GRO- β , GRP- γ - as correctly recited in then-pending claim 91 (now issued claim 50) of the claim listing of the Amendment filed on 09 October 2002.

In claim 50, on page 6, in line 12 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation "SDF-1 α , SDF-1 α " by inserting the character ' α ' instead of the correct ' α ' character and by inserting the character ' α ' instead of the correct ' β ' character. Please correct these typographical errors such that the recitation now reads as -SDF-1 α , SDF-1 β - as correctly recited in then-pending claim 91 (now issued claim 50) of the claim listing of the Amendment filed on 09 October 2002.

In claim 50, on page 6, in line 13 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation "MIP-1 α , MIP-1 α , MIP-1 α , MIP-2, MIP-2 α , MIP-3 α " by inserting the character ' α ' instead of the correct ' α ' character, by inserting the character ' α ' instead of the correct ' β ' character, and by inserting the character ' α ' instead of the correct ' γ ' character. Please correct these typographical errors such that the recitation now reads as -MIP-1 α , MIP-1 β , MIP-1 γ , MIP-2, MIP-2 α , MIP-3 α - as correctly recited in then-pending claim 91 (now issued claim 50) of the claim listing of the Amendment filed on 09 October 2002.

In claim 50, on page 6, in line 14 of the Certificate of Correction issued on 24 June 2008, the PTO incorrectly printed the recitation "MIP-3 α , MIP-4, MIP-5, MDC, HCC-1, LD78 α " by inserting the character ' α ' instead of the correct ' β ' character. Please correct these typographical errors such that the recitation now reads as -MIP-3 β , MIP-4, MIP-5, MDC,

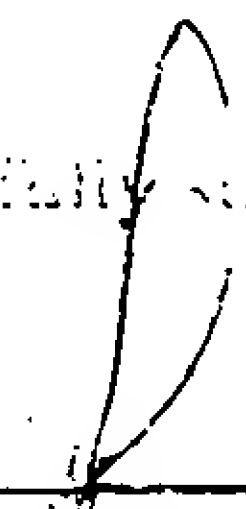
Applicant : McDonald et al.
Patent No. : 7,157,418
Issue Date : January 2, 2007
Serial No. : 09/360,242
Filed : July 22, 1999

Attorney's Docket No.: 119361-00003 / 601B
Request for Corrected Certificate of Correction

HCC-1, LD78 β — as correctly recited in then-pending claim 91 (now issued claim 50) of the claim listing of the Amendment filed on 09 October 2002.

The errors sought to be corrected were made in printing by the Patent and Trademark Office, and no fee should be due. If it is determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 02-1818.

Respectfully submitted,


Stephanie Seidman
Reg. No. 33,779

Attorney Docket No. 119361-00003 / 601B
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email. sseidman@bellboyd.com

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,157,418 B1
APPLICATION NO. : 09/360242
DATED : January 2, 2007
INVENTOR(S) : John R. McDonald and Phillip J. Coggins

Page 1 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

IN THE TITLE PAGES:

- In Item [57] ABSTRACT, line 1 please delete the "a" between "ligand" and "chemokine"
- in Item [57] ABSTRACT, please replace "neutrophiles" with --neutrophils--
- in Item [56] *References Cited* please add to the list of OTHER PUBLICATIONS --Kreitman and Pastan, *Semin. Cancer Biol.* 6(5):297-306 (1995).--
- in Item [56] *References Cited* please add to the list of OTHER PUBLICATIONS --Kreitman, R.J., et al., Recombinant toxins, *Adv. Pharmacol.*, 28:193-219 (1994).--
- in Item [56] *References Cited* please add to the list of OTHER PUBLICATIONS --Medh, J.D., et al., *J. Biol. Chem.*, 270:536-540 (1995).--
- in Item [56] *References Cited* please add to the list of OTHER PUBLICATIONS --Puri, *Toxicol. Pathol.* 27:53-57 (1999).--
- in Item [56] *References Cited* please add to the list of OTHER PUBLICATIONS --Sawada, M., et al., *Neurosci. Lett.*, 160:131-4 (1993).--
- in Item [56] *References Cited* please add to the list of OTHER PUBLICATIONS --Sirpe, F., et al., *J. Biol. Chem.*, 255:6947-6953 (1980).--
- in Item [56] *References Cited* please add to the list of OTHER PUBLICATIONS --Ugoccioni, M., et al., *J. Exp. Med.*, 183:2379-84 (1996).--
- in Item [56] *References Cited* please add to the list of OTHER PUBLICATIONS --Zheng, G., et al., *J. Histochem. Cytochem.*, 42: 531-42 (1994).--
- in Item [56] *References Cited*, in OTHER PUBLICATIONS: in EMBL database ID HS1301003, please replace "(Lingkine)" with --(Lungkine)--

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,157,418 B1
APPLICATION NO. : 09/360242
DATED : January 2, 2007
INVENTOR(S) : John R. McDonald and Phillip J. Coggins

Page 2 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

in Hesselgesser et al., please replace "Chemokine" with --Chemokine--
in Richmond et al., please replace "chemokine/chemokine receptor" with
--chemokine/chemokine receptor--
in Signorel et al., please replace "Chemokine" with --Chemokine--

IN THE SPECIFICATION:

At column 1, line 24, please insert --FIELD OF THE INVENTION The present invention relates to therapeutic compositions and their use in treatment of disease states. More particularly, compounds, compositions and methods for treating disease states associated with proliferation, migration and physiological activity of cells involved in inflammatory responses, including, but not limited to, secondary tissue damage, are provided.--

at column 14, line 43, please replace "FIG. 1 is a schematic drawing" with --FIG. 1A-1C presents schematic drawings--

at column 14, line 56, please insert --(also designated herein pOPL2)-- between "pGEMEX-SAP" and "encoding"

at column 14, lines 59-60, please replace "map of a conjugate MCP-3-AM-Shiga-A1" with --map of a plasmid, designated pOPL1, encoding the conjugate MCP-3-AM Shiga-A1, which was--

at column 14, lines 62-63, please replace "map of a conjugate MCP-1-AM-SAP" with --map of a plasmid, designated pOPL106, encoding the conjugate MCP-1-AM-SAP--

at column 14, lines 65-66, please replace "map of a conjugate MCP3-AM-Shiga-A1" with --map of a plasmid, designated pOPL101, encoding the conjugate MCP-3-AM Shiga-A1--

at column 16, line 56, please delete "ALP,"

at column 32, line 25, please delete "of"

at column 57, line 30, please insert --)-- between "1986" and "."

at column 57, line 51, please replace "Ed." with --ed.--

at column 68, line 56, please replace "MIP-1 alpha" with --MIP-14--

at column 69, line 13, please insert --which-- between "mice" and "predictably"

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,157,418 B1
APPLICATION NO : 09/360242
DATED : January 2, 2007
INVENTOR(S) : John R. McDonald and Phillip J. Coggins

Page 3 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

IN THE CLAIMS:

Please replace Claims 5, 11, 18, 20, 25, 27, 28, 31, 32, 40, 45, 48, 50 and 55 with the following Claims:

Column 201, delete lines 41-50 and insert:

--5. The method of claim 1, wherein the activated, proliferating or migrating immune cells occur in a disorder or disease state that is selected from the group consisting of CNS injury, CNS inflammatory diseases, neurodegenerative disorders, heart disease, inflammatory eye diseases, inflammatory bowel diseases, inflammatory joint diseases, inflammatory kidney or renal diseases, inflammatory lung diseases, inflammatory nasal diseases, inflammatory thyroid diseases, inflammatory responses associated with bacterial or viral infections and cytokine-regulated cancers.--

Column 202, delete lines 24-46 and insert:

--11. The method of claim 1, wherein the conjugate comprises the following components: (chemokine receptor targeting agent)_n, (L)_q and (targeted agent)_m, wherein: L is a linker for linking the chemokine receptor targeting agent to a targeted agent; chemokine receptor targeting agent is any moiety that selectively binds to a chemokine receptor and effects internalization of the conjugate; m and n, which are selected independently, are at least 1; and q is 0 or more as long as the resulting conjugate binds to the targeted receptor, is internalized and delivers the targeted agent; the resulting conjugate binds to a receptor that interacts with and internalizes a chemokine, whereby the targeted agent(s) is internalized in a cell bearing the receptor; and when the conjugate contains a plurality of targeted agents, the targeted agents are the same or different, and when the conjugate contains a plurality of chemokine receptor targeting agents, the targeting agents are the same or different.--

Column 202, delete lines 65-67 and insert:

--18. The method of claim 11, wherein the chemokine receptor targeting agent and targeted agent are linked directly via a covalent or ionic linkage.--

Column 203, delete lines 4 and 5 and insert:

--20 The method of claim 19, wherein the linker is a peptide linkage, a polypeptide or a chemical linker.--

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,157,418 B1
APPLICATION NO. : 09/360242
DATED : January 2, 2007
INVENTOR(S) : John R. McDonald and Phillip J. Coggins

Page 4 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 203, delete lines 23-30 and insert:

--25. The method of claim 22, wherein the chemokine is selected from the group consisting of IL-8, GCP-2, GRO-~~2~~^α, GRO-~~3~~^β, GRP-~~2~~^β, ENA-78, PBP, CTAP III, NAP-2, LAPF-4, MIG, IP-10, SDF-1~~2~~^α, SDF-1~~3~~^β, SDF-2, MCP-1, MCP-2, MCP-3, MCP-4, MCP-5, MIP-1~~2~~^α, MIP-1~~3~~^β, MIP-1~~3~~^γ, MIP-2, MIP-2~~2~~^α, MIP-3~~2~~^α, MIP-3~~2~~^β, MIP-4, MIP-5, MDC, HCC-1, LD78~~2~~^α, cotaxin-1, cotaxin-2, I-309, SCYA17, TARC, RANTES, DC-CK-1, lymphotactin and fractalkine.--

Column 203, delete lines 34-39 and insert:

--27. The method of claim 1, wherein the chemokine receptor is selected from the group consisting of CXCR-1, CXCR-2, CXCR-3, CXCR-4, CXCR-5, CCR-1, CCR-2A, CCR-2B, CCR-3, CCR-4, CCR-5, CCR-6, CCR-7, CCR-8, CX3CR-1, XCR1, Duffy antigen receptor for chemokines (DARC) and CD97.--

Column 203, delete lines 40-44 and insert:

--28. The method of claim 22, wherein the chemokine receptor is selected from the group consisting of DARC, CXCR-1, CXCR-2, CXCR-3, CXCR-4, CCR-1, CCR-2A, CCR-2B, CCR-3, CCR-4, CCR-5, CCR-6, CCR-7, CCR-8, CX3CR-1, and CD97.--

Column 203, delete lines 55-67 and insert:

--31. A method for inhibiting proliferation or migration of activated immune effector cells, comprising contacting immune effector cells with a conjugate that comprises a targeted agent or a portion thereof and a chemokine receptor targeting agent, whereby activation or proliferation of the immune effector cells is inhibited, wherein:

the targeted agent or portion thereof is a toxin;
the chemokine receptor targeting agent is a chemokine or a fragment thereof that binds to a chemokine receptor and internalizes the targeted agent; and
the conjugate binds to a chemokine receptor resulting in internalization of the targeted agent in cells bearing the receptor.--

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,157,418 B1
APPLICATION NO. : 09/360242
DATED : January 2, 2007
INVENTOR(S) : John R. McDonald and Phillip J. Coggins

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 204, delete lines 1-19 and insert:

--32. The method of claim 31, wherein the conjugate comprises the following components: (chemokine receptor targeting agent)_n, (L)_q and (targeted agent)_m, wherein: L is a linker for linking the chemokine or fragment thereof to a targeted agent; m and n, which are selected independently, are at least 1; and q is 0 or more as long as the resulting conjugate binds to the targeted receptor, is internalized and delivers the targeted agent; the resulting conjugate binds to a receptor that interacts with and internalizes a chemokine, whereby the targeted agent(s) is internalized in a cell bearing the receptor; and when the conjugate contains a plurality of targeted agents, the targeted agents are the same or different, and when the conjugate contains a plurality of chemokine receptor targeting agents, the targeting agents are the same or different.--

Column 204, delete lines 45-52 and insert:

--40. The method of claim 29, wherein the chemokine is selected from the group consisting of IL-8, GCP-2, GRO-~~2~~, GRO-~~3~~, GRP-~~2~~, ENA-78, PBP, CTAP III, NAP-2, LAPF-4, MIG, IP-10, SDF-1~~2~~, SDF-1~~3~~, SDF-2, MCP-1, MCP-2, MCP-3, MCP-4, MCP-5, MIP-1~~2~~, MIP-1~~3~~, MIP-1~~3~~, MIP-2, MIP-2~~2~~, MIP-3~~2~~, MIP-3~~3~~, MIP-4, MIP-5, MDC, HCC-1, LD78~~2~~, eotaxin-1, eotaxin-2, I-309, SCYA17, TARC, RANTES, DC-CK-1, lymphotactin, and fractalkine.--

Column 204, delete lines 65-67 and insert:

--45. A method of preparing a candidate compound for treating a disease or disorder involving activated immune cells, comprising:
identifying immune cells that are activated in the disease or disorder;
identifying chemokine receptors expressed on the cells; and
preparing a conjugate or plurality thereof containing a toxin linked to a chemokine or a plurality of chemokines that specifically bind to the identified chemokine receptors and effect or facilitate internalization of the toxin into the cells.--

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,157,418 B1
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DATED : January 2, 2007
INVENTOR(S) : John R. McDonald and Phillip J. Coggins

Page 6 of 6

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 205, delete lines 16-24 and insert:

--48. The method of claim 21, wherein the chemokine receptor targeting agent is selected from the group consisting of IL-8, GCP-2, GRO-~~α~~, GRO-~~β~~, GRP-~~α~~, ENA-78, PBP, CTAP III, NAP-2, LAPF-4, MIG, IP-10, SDF-1~~α~~, SDF-1~~β~~, SDF-2, MCP-1, MCP-2, MCP-3, MCP-4, MCP-5, MIP-1~~α~~, MIP-1~~β~~, MIP-1~~γ~~, MIP-2, MIP-2~~α~~, MIP-3~~α~~, MIP-3~~β~~, MIP-4, MIP-5, MDC, HCC-1, LD78~~α~~, eotaxin-1, eotaxin-2, I-309, SCYA17, TARC, RANTES, DC-CK-1, lymphotactin, and fractalkine.--

Column 206, delete lines 1-8 and insert:

--50. The method of claim 45, wherein the chemokine is selected from the group consisting of IL-8, GCP-2, GRO-~~α~~, GRO-~~β~~, GRP-~~α~~, ENA-78, PBP, CTAP III, NAP-2, LAPF-4, MIG, IP-10, SDF-1~~α~~, SDF-1~~β~~, SDF-2, MCP-1, MCP-2, MCP-3, MCP-4, MCP-5, MIP-1~~α~~, MIP-1~~β~~, MIP-1~~γ~~, MIP-2, MIP-2~~α~~, MIP-3~~α~~, MIP-3~~β~~, MIP-4, MIP-5, MDC, HCC-1, LD78~~α~~, eotaxin-1, eotaxin-2, I-309, SCYA17, TARC, RANTES, DC-CK-1, lymphotactin, and fractalkine.--

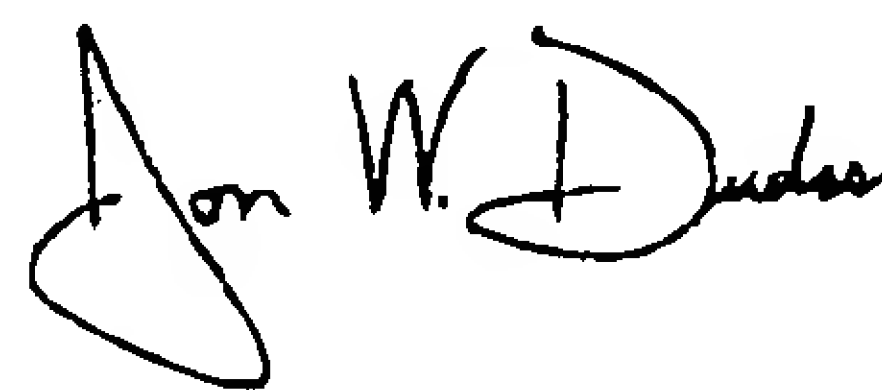
Column 206, delete lines 24-26 and insert:

--55. The method of claim 45, further comprising:
 contacting the immune cells with the conjugate or plurality thereof,
whereby the toxin is internalized.--

This certificate supersedes all previously issued Certificate of Corrections.

Signed and Sealed this

Twenty-fourth Day of June, 2008



JON W. DUDAS

Director of the United States Patent and Trademark Office